

#### ABSTRACT OF THE DISCLOSURE

A fuel pressure control apparatus for a cylinder injection type engine capable of restarting the engine without fail notwithstanding increase of fuel pressure due to temperature rise immediately after stoppage of engine operation. Fuel is supplied from a high pressure fuel pump (5) to a fuel rail (2) to be injected by fuel injection valves (1) into combustion chambers (20) of cylinders. An ECU (10) estimates increment ( $\Delta P$ ) of the fuel pressure (PF) within the fuel rail (2) after stoppage of the engine operation on the basis of a water temperature (THW) and an intake air temperature (THA) to restrict a maximum value of a desired fuel pressure ( $P_o$ ) so that a sum value (PM) of the desired fuel pressure ( $P_o$ ) and the increment ( $\Delta P$ ) does not exceed the critical actuation pressure ( $P_i$ ) of the fuel injection valve (1).